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(71) Applicant (for all designated States except US): **OHIO
UNIVERSITY** [US/US]; 20 East Circle Drive, Suite 190,
Athens, Ohio 45701-3751 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **REN, Yulin** [CN/US];
1308 Carriage Hill Drive, Athens, Ohio 45701 (US).

(74) Agent: **FROST, Kristin**; 800 Superior Avenue, Suite
1400, Cleveland, Ohio 44114-2688 (US).

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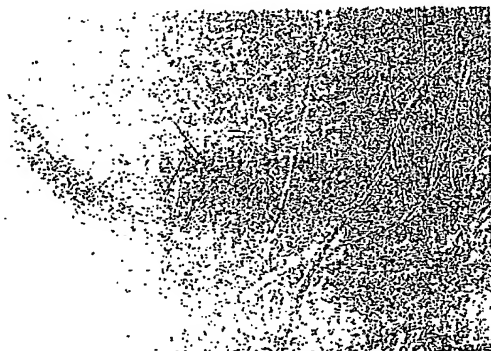
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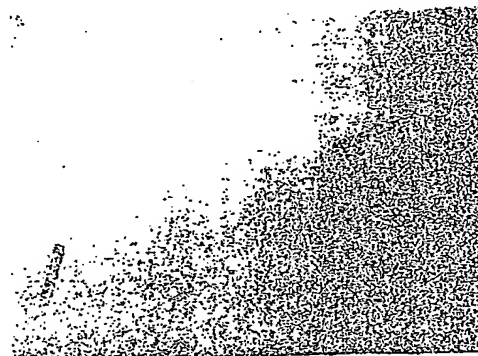
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(54) Title: **PGG SEPARATION AND PURIFICATION**



α -PGG crystals (x 50)

Long, thin and needle-like



β -PGG crystals (x 50)

Short and rod-like

(57) Abstract: A simple, inexpensive, and efficient method for separation and purification of the α - and β - FORMS OF penta-O-galloyl-D-glucose (PGG) without the need for HPLC. The methods provided herein are useful for separating α -PGG or β -PGG from a mixture that contains α -PGG and β -PGG and other chemicals. The method for separation of α -PGG from a mixture of α -PGG and β -PGG comprises the steps of: adding water to a sample containing 50% or more α -PGG and 50% or less β -PGG; mixing the PGG and water to dissolve the PGG; filtering out any undissolved particles; and allowing the filtered solution to stand undisturbed until crystals form.

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